

Patent Attorney's Docket No. 031221-046

	THAT STATES I	ATENT AND TRADEMARK OFFICE						
In re Patent	Application of	)						
Edward F.	Γokas, et al.	) Group Art Unit: 1733						
Application	No. 09/772,157	)						
	ary 29, 2001	) Examiner: UNASSIGNED )						
For: Impro Coatin	oved Fiber Substrate Adhesion and ngs by Contact Metathesis nerization	ISCLOSURE STATEMENT TO TOO						
	INFORMATION D	ISCLOSURE STATEMENT 73						
Assistant Co Washington,	mmissioner for Patents	UTTAL LETTER 700						
_Sir:								
Enclo	osed is an Information Disclosure	Statement and accompanying form PTO-1449 for the						
above-identif	ied patent application.	·						
[X]	[X] No additional fee for submission of an IDS is required.							
[]	[] The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.							
[]	A certification under 37 C.F.R. § 1.97(e) is also enclosed.							
[]	A certification under 37 C.F.R.	§ 1.97(e), and the fee of \$180.00 (126) as set forth in						
	37 C.F.R. § 1.17(p) are also enc	37 C.F.R. § 1.17(p) are also enclosed.						
[]		count No. 02-4800 for the fee due.						
[]	A check in the amount of \$	is enclosed for the fee due.						
The Co §§ 1.16, 1.17 a Account No. 0	ommissioner is hereby authorized nd 1.21 that may be required by the 2-4800. This paper is submitted in	to charge any appropriate fees under 37 C.F.R. nis paper, and to credit any overpayment, to Deposit n duplicate.  Respectfully submitted,						
DOD 1404		BURNS, DOANE, SWECKER & MATHIS, L.L.P.						
P.O. Box 1404 Alexandria, Vii (919) 941-9240	ginia 22313-1404	, - c, on Lener & Ivia i His, L.L.P.						
Date: Qua	ust 13,2001	By: Mary B. Strant  Mary B. Grant  Registration No. 32,176						

(9/99)



Attorney's Docket No. 0317, 5946

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE 1733 In re Patent Application of Edward F. Tokas, et al. Application No. 09/772,157 Examiner: UNASSIGNED Filed: January 29, 2001 For: Improved Fiber Substrate Adhesion and Coatings by Contact Metathesis Polymerization

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

Burns, Doane, Swecker & Mathis, L.L.P.

Registration No. 32,176

P.O. Box 1404

Alexandria, VA 22313-1404

Phone: (919) 941-9240

Date: Quaust 13,2001

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## INFORMATION DISCLOSURE ATTORNEY'S DKT No. APPLICATION NO. 031221-046 09/772,157 APPLICANT **CITATION** Edward F. Tokas et al. FILING DATE PTO-1449

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		U	J.S. PATENT DOCUMENTS		C	2007
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING D
	6,020,443	Feb.2000	Woodson et al.		GOBOLA	9
5,969,170 Oct.1999		Grubbs et al.				
	5,939,504	Aug.1999	Woodson, Jr. et al.		<del>                                     </del>	
	5,932,664	Aug.1999	Chen et al.		<del>                                     </del>	
	5,880,231	Mar.1999	Grubbs et al.			<del>-</del>
	5,849,851	Dec.1998	Grubbs et al.	<del> </del>	<del>                                     </del>	
	5,840,238	Nov.1998	Setiabudi et al.		+	
	5,728,785	Mar.1998	Grubbs et al.		1	
	5,609,962	Mar.1997	Ouhadi			<del>                                     </del>
	5,539,060	Jul.1996	Tsunogae et al.		<del>  -</del>	†
	5,491,206	Feb.1996	Brown-Wensley et al.			<del> </del>
	5,342,909	Aug.1994	Grubbs et al.			+
	5,312,940	May1994	Grubbs et al.			
	5,137,785	Aug.1992	Suzuki et al.			
	5,073,597	Dec.1991	Puydak et al.			<del> </del>
	5,069,962	Mar. 1997	Okazaki et al.			<del>                                     </del>
	4,902,560	Feb.1990	Silver	+		
	4,902,460	Feb.1990	Yagi et al.			
	4,727,215	Feb.1998	Schrock			
		FORE	IGN PATENT DOCUMENTS			
XAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translatio
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	97/38036	Oct.1997	wo						
	96/23829	Aug.1996	wo						
	96/16008	May1996	wo						
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<u> </u>	2,242,060	Jan.1999	CA -				2		
	OTHER DOCL	JMENTS (Inc	luding Author,	Title, Date, Perti	nent Page	es. Etc.)			
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Ahmed, M., et al., "A recyclable boomerang polymer-supported ruthenium catalyst for olefin metathesis", Tetrahedron Let., 40: 8657-8662 (Elseivier Science Ltd.)1999.								
	Amoroso, D. and Fogg, D. E., "Ring-Opening Metathesis Polymerization via Ruthenium complexes of chelating Diphosphines", <i>Macromolecules</i> , 33: 2815-2818 (Published on web 03/31/2000 by Am. Chem. Soc.) 2000.								
1	Bartz, M., et al., "Colloid-Bound Catalysts for Ring-Opening Metathesis Polymerization: A Combination of Homogenous and Heterogeneous Properties", 37(18): 2466-2468 (Agnew Chem. Int. Ed.) 1998.							w.	
	and Mo(CHCMe <sub>2</sub> (Am. Chem. Soc.	R)(N-2,6-C <sub>6</sub> F .) 1991.	Inorbornadienes I <sub>3</sub> - <i>i</i> -PR <sub>2</sub> )OCMe <sub>2</sub> (	etathesis Polyme s by Mo(CHCMe <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> " <i>J. Am. Che</i>	R)(N-2,6- em. Soc.,	C <sub>6</sub> H <sub>3</sub> - <i>i</i> -Pr <sub>2</sub> _(O 113: 6899-	- <i>t</i> -BU) <sub>2</sub> 6907	ized	
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## SHEET 3 OF 4 ATTORNEY'S DKT No. APPLICATION No. INFORMATION 031221-046 09/772,157 **.OSURE** APPLICANT CITATION Edward F. Tokas tal. FILING DATE GROUN PTO-1449 January 29, 2001 **U.S. PATENT DOCUMENTS EXAMINER'S** INITIALS PATENT NO. DATE NAME CLASS **SUBCLA** FOREIGN PATENT DOCUMENTS **EXAMINER'S** Translation **INITIALS** PATENT NO. DATE COUNTRY **CLASS SUBCLASS** OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Hansen, S. M., et al., "A New Class of Ruthenium Carbene Complexes: Synthesis and Structures of Highly Efficient Catalysts for Olefin Metathesis \*\*", Angew. Chem. Int. Ed., 38(9): 1273-1276 (Wiley-VCH, Weinheim) 1999. "Improving Adhesion Between Poly(Dicyclopentadiene) and Carbon Fiber", Research Disclosure, 810: 34301, Nov., 1992. Ivin, K. J., and Mol, J. C., "Olefin Metathesis and Metathesis Polymerization", (Acad. Press) 294-330, 1997. Kingsbury, J. S., et al., "A Recyclable Ru-Based Metathesis Catalyst", J. Am. Chem. Soc., 121: 791-799 (Am. Chem. Soc., Publ. On Web 01/15/99) 1999. Lynn, D. M., et al., "Water-Soluble Ruthenium Alkylidenes: Synthesis, Characterization, and Application to Olefin Metathesis in Protic Solvents", Am. Chem. Soc., 122: 6601-6609 (Am. Chem. Soc., Publ. On Web. 6/30/00) 2000. Mohr. B., et al., "Synthesis of water-Soluble, Aliphatic Phosphines and Their Application to Well-Defined Ruthenium Olefin metathesis Catalysts", Organometallics, 15: 4317-4325, Nguyen, S. T. and Grubbs, R. H., "Synthesis and Activities of New Single-Component, Ruthenium-Based Olefin Metathesis Catalysts", J. Amer. Chem. Soc., 115: 9858-9859 (Am. Chem. Soc.)1993. Olivan, M. and Caulton, K. G., "The first double oxidative addition of CH2CO2 to a metal complex: facile synthesis of $[Ru(CH_2Cl_2\{P(C_6H_{11})_3\}_2]''$ , Chem. Commun., 1733-1734, 1997. Robson, D. A., et al., "(Communications to the Editor) A New and Highly Efficient Grubbs Initiator for Ring-Opening metathesis Polymerization", Macromolecules, 32: 6371-6373 (Am. Chem. Soc., Publ on Web 08/31/99)1999. Sanford, M. S., et al., "Ruthenium-Based Four-coordinate Olefin Metathesis Catalysts \*\*", Angew. Chem. Int. Ed., 39(19): 3451-3453 (Wiley-VCH, Weinheim) 2000. Scholl, M., et al., "Increased Ring Closing Metathesis Activity of Ruthenium-Based Olefin Metathesis catalysts Coordinated with Imidazolin-2ylidene Ligands", Tetrahedron Lett., 40: 2247-2250 (Elsevier Sci. Ltd) 1999. **EXAMINER** DATE CONSIDERED

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	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Scholl, M., et al., "Synthesis and Activity of a New Generation of Ruthenium-Based Olefin Metathesis Catalysts Coordinated with 1,3-Dimesity-4,5-dihydroimidazol-2ylidene Ligands <sup>§</sup> ", Organic Lett., 1(6): 953-956 (Am. Chem. Soc., Pub. on Web 08/13/99)1999.									
	Schwab, P., et al., "Synthesis and Applications of RuCl <sub>2</sub> (= CHR')PR <sub>3</sub> ) <sub>2</sub> : The Influence of the Alkyliden Moiety on Metathesis Activity", <i>J. Amer. Chem. Soc.</i> , 118: 100-110 (Am. Chem. Soc.) 1996.									
	Schwab, P., et al., "A Series of Well-Defined Metathesis Catalysts-Synthesis of [RuCl <sub>2</sub> (= CHR')(PR <sub>3</sub> ) <sub>2</sub> ] and Its Reactions**]", <i>Angew. Chem. Int. Ed.</i> , 34(18): 2039-2041 (VCH Verlagsgesellschaft, Weinheim)1995.									
	Skeist, Ph.D., I, "Cyanoacrylate Adhesives", Handbook of Adhesives, 3 <sup>rd</sup> Ed., 470-476 (Chapman & Hall) 1990.									
	Ulman, M., et al., "A series of ruthenium(II) ester-carbene complexes as olefin metathesis initiators: metathesis of acrylates†", <i>Tetrah. Lett.</i> , 4689-4693 (Elsevier Sci. Ltd.) 2000.									
	Weck, M., et al, "Ring-Opening Metathesis Polymerization from Surfaces", <i>Polymeric Materials Science and Engineering</i> , 79: 72-75 (American Chemical Society) 1998.									
	Weck, M., et al., "Ring-Opening Metathesis Polymerization from Surfaces", J. Am. Chem. Soc., 121: 4088-4089, 1999.									
	Weskamp, T., et al., "A Novel Class of Ruthenium Catalysts for Olefin Metathesis**", Angew. Chem. Int. Ed., 37(18): 2490-2493 (Wiley-VCH Verlag, Weinheim) 1998.									
	Wolf, J., et al., "Ruthenium Trichloride, Tricyclohexyl-phosphane, 1-Alkynes, Magnesium, Hydrogen, and Water-Ingredients of an Efficient One-Pot Synthesis of ruthenium Catalysts for Olefin Metathesis", <i>Angew. Chem. Int. Ed.</i> , 37(8): 1124-1126 (Wiley-VCH Verlag, Weinheim) 1998.									
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